

Recombinant Human Mothers against decapentaplegic homolog 3(SMAD3)

Catalog No: #AP70783

Package Size: #AP70783-1 20ug #AP70783-2 100ug #AP70783-3 1mg

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Description

Product Name	Recombinant Human Mothers against decapentaplegic homolog 3(SMAD3)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-425aaSequence Info:Full Length
Other Names	JV15-2SMAD family member 3 ;SMAD 3 ;Smad3 ;hSMAD3
Accession No.	P84022
Calculated MW	64.1 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MSSILPFTPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEKAITTQNVNTKCITIPRSLDGR LQVSHRKGLPHVIYCRLWRWPDHLHSHHELRAMELCEFAFNMKKDEVCPNYPHYQRVETPVLPPVLVPRHTEI PAEFPPDDYSHSIPENTNFPAGIEPQSNIPETPPPGYLSEGETSDHQMNHSMDSAGSPNLSNPMPSPAHNN LDLQPVTYCEPAFWCSISYELNQRVGETFHASQPSMTVDGFTDPSNSERFCLGLLSNVNRNAAVELTRRHIG RGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKIFNNQEFAALLAQSVNQGFVAVY QLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGLPLQWLDKVLTMGSPSIRCSSVS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD3,SMAD4 complex, activates transcription. Also can form a SMAD3,SMAD4,JUN,FOS complex at the AP-1,SMAD site to regulate TGF-beta-mediated transcription. Has an inhibitory effect on wound healing probably by modulating both growth and migration of primary keratinocytes and by altering the TGF-mediated chemotaxis of monocytes. This effect on wound healing appears to be hormone-sensitive. Regulator of chondrogenesis and osteogenesis and inhibits early healing of bone fractures. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator

References

Analysis of the DNA sequence and duplication history of human chromosome 15.Zody M.C., Garber M., Sharpe T., Young S.K., Rowen L., O'Neill K., Whittaker C.A., Kamal M., Chang J.L., Cuomo C.A., Dewar K., FitzGerald M.G., Kodira C.D., Madan A., Qin S., Yang X., Abbasi N., Abouelleil A., Arachchi H.M., Baradarani L., Birditt B., Bloom S., Bloom T., Borowsky M.L., Burke J., Butler J., Cook A., DeArellano K., DeCaprio D., Dorris L. III, Dors M., Eichler E.E., Engels R., Fahey J., Fleetwood P., Friedman C., Gearin G., Hall J.L., Hensley G., Johnson E., Jones C., Kamat A., Kaur A., Locke D.P., Madan A., Munson G., Jaffe D.B., Lui A., Macdonald P., Mauceli E., Naylor J.W., Nesbitt R., Nicol R., O'Leary S.B., Ratcliffe A., Rounsley

Note: This product is for in vitro research use only and is not intended for use in humans or animals.